



1" PITOTLESS NOZZLE™

PN1THD FLOW CHART

| 2 1/2" Hose Monster Model II | | | Open Atmosphere | | | 2 1/2" Hose Monster Model II | | | Open Atmosphere | | |
|---------------------------------|-----|-----|--------------------|-----|-----|---------------------------------|--|-----|--------------------|-----|--|
| PSI | GPM | GPM | | PSI | GPM | GPM | | PSI | GPM | GPM | |
| 3 | 48 | 48 | | 42 | 179 | 180 | | | | | |
| 4 | 55 | 55 | | 43 | 181 | 182 | | | | | |
| 5 | 62 | 62 | | 44 | 183 | 184 | | | | | |
| 6 | 68 | 68 | | 45 | 185 | 186 | | | | | |
| 7 | 73 | 73 | | 46 | 187 | 188 | | | | | |
| 8 | 78 | 78 | | 47 | 189 | 190 | | | | | |
| 9 | 83 | 83 | | 48 | 191 | 192 | | | | | |
| 10 | 87 | 88 | | 49 | 193 | 194 | | | | | |
| 11 | 92 | 92 | | 50 | 195 | 196 | | | | | |
| 12 | 96 | 96 | | 51 | 197 | 198 | | | | | |
| 13 | 100 | 100 | | 52 | 199 | 200 | | | | | |
| 14 | 103 | 104 | | 53 | 201 | 202 | | | | | |
| 15 | 107 | 107 | | 54 | 203 | 204 | | | | | |
| 16 | 110 | 111 | | 55 | 205 | 205 | | | | | |
| 17 | 114 | 114 | | 56 | 207 | 207 | | | | | |
| 18 | 117 | 118 | | 57 | 208 | 209 | | | | | |
| 19 | 120 | 121 | | 58 | 210 | 211 | | | | | |
| 20 | 123 | 124 | | 59 | 212 | 213 | | | | | |
| 21 | 126 | 127 | | 60 | 214 | 215 | | | | | |
| 22 | 129 | 130 | | 61 | 216 | 216 | | | | | |
| 23 | 132 | 133 | | 62 | 217 | 218 | | | | | |
| 24 | 135 | 136 | | 63 | 219 | 220 | | | | | |
| 25 | 138 | 139 | | 64 | 221 | 222 | | | | | |
| 26 | 141 | 141 | | 65 | 223 | 223 | | | | | |
| 27 | 143 | 144 | | 66 | 224 | 225 | | | | | |
| 28 | 146 | 147 | | 67 | 226 | 227 | | | | | |
| 29 | 149 | 149 | | 68 | 228 | 228 | | | | | |
| 30 | 151 | 152 | | 69 | 229 | 230 | | | | | |
| 31 | 154 | 154 | | 70 | 231 | 232 | | | | | |
| 32 | 156 | 157 | | 71 | 233 | 233 | | | | | |
| 33 | 159 | 159 | | 72 | 234 | 235 | | | | | |
| 34 | 161 | 162 | | 73 | 236 | 237 | | | | | |
| 35 | 163 | 164 | | 74 | 237 | 238 | | | | | |
| 36 | 166 | 166 | | 75 | 239 | 240 | | | | | |
| 37 | 168 | 168 | | 76 | 241 | 241 | | | | | |
| 38 | 170 | 171 | | 77 | 242 | 243 | | | | | |
| 39 | 172 | 173 | | 78 | 244 | 245 | | | | | |
| 40 | 175 | 175 | | 79 | 245 | 246 | | | | | |
| 41 | 177 | 177 | | 80 | 247 | 248 | | | | | |

This device is FM Approved

The pressure vs. flow rate data developed within this flow chart is based on the average K-factor measured during laboratory testing. This data has been determined to be within the acceptable limitations for accuracy.

It is the user's responsibility to verify that the correct chart and column is being used.

- **2 1/2" Hose Monster Model II or Flusher with flow splitter (HM2H, HM2HF).** Use this column if the Pitotless Nozzle is connected to the 2 1/2" Hose Monster or Flusher. The built-in pitot or flow splitter must be installed for accuracy.
- **Open Atmosphere.** Use this column when the Pitotless Nozzle is connected directly to a test header or hydrant flowing openly to atmosphere.

Additional copies of flow charts are available at:
www.hosemonster.com





Pitotless Nozzle™ Threaded

INSTRUCTIONS

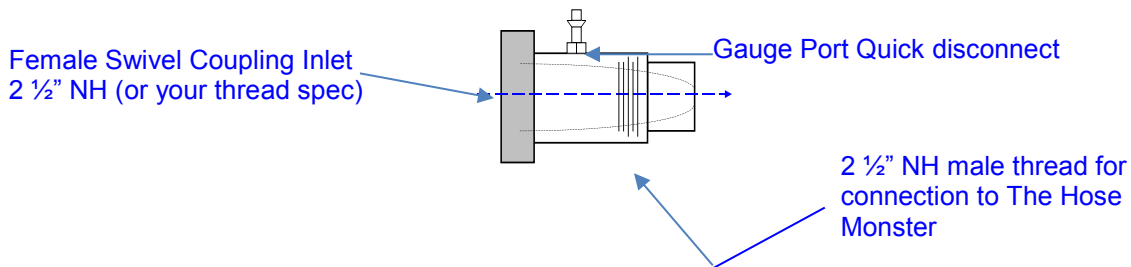
US Patent 6,874,375

The Pitotless Nozzle Threaded (PN#THD) must be used with the 2 ½" Hose Monster Model II (HM2H, HM2HF) or attached directly to a hydrant or test header valve discharging into open atmosphere. *Note: If you intend to use the Pitotless Nozzle with the Little Hose Monster (HML), then a Pitotless Nozzle Grooved (PN#GRV) is required. Do not use the Pitotless Nozzle Threaded (PN#THD) with the Little Hose Monster. Call us if you are considering a configuration not listed here.*

SETUP

The gauge connection on the Pitotless Nozzle is a factory-installed male end of a quick disconnect coupling. One female counterpart is included and additional ones can be purchased separately. Attach the female end of the quick disconnect coupling directly to the gauge or remote reader adapter and use the quick disconnect feature to attach and remove. Do not remove the male quick disconnect from the Pitotless Nozzle as it will damage the threads on the Pitotless Nozzle.

We recommend a gauge with an accuracy rating of ½% or better and of a suitable range.



Using the Pitotless Nozzle with the 2 ½" Hose Monster® or Flusher

Insert the male outlet end of the Pitotless Nozzle into the swivel coupling of the Hose Monster. Hand-tighten plus about a quarter turn using a common rocker lug spanner wrench on the swivel coupling and a hole type spanner wrench (WSPA104) for a holdback. Attach the male end of a hose into the swivel coupling on the Pitotless Nozzle, hand-tighten plus about a quarter turn using spanner wrenches. The pitot/flow splitter must be installed on either unit in order to collect accurate flow rates. Make sure the hose lays flat and is not twisted.

If using the Pitotless Nozzle without the Hose Monster

The Pitotless Nozzle must be attached securely to a pump test header valve or hydrant. Secure the female swivel coupling of the Pitotless Nozzle directly to a hydrant nozzle or test header valve. The Pitotless Nozzle points in the direction the water will flow. Clear water discharge path.

Flow Charts

Pitotless Nozzle flow charts must be used to determine discharge flow rate. The use of flow charts of a different device or size will result in incorrect readings. Within the flow chart is a column for "2 ½" Hose Monster Model II" and for "Open Atmosphere". Use the "2 ½" Hose Monster Model II" flows if the Pitotless Nozzle is attached to a 2 ½" Hose Monster Model II. Use the "Open Atmosphere" flows if the Pitotless Nozzle is attached directly on a hydrant or test header valve discharging out into the open. Flow charts are provided with the Pitotless Nozzle and additional copies are available on our website at www.HoseMonster.com

WARNING:

- **Do not** attach the Pitotless Nozzle to the end of a hose unless the Hose Monster is attached to it or unless it is permanently secured.
- **Do not** attach a hose to the male outlet end of the Pitotless Nozzle under any circumstance. The resulting backpressure will distort flow rate measurement.
- **Do not** remove the quick disconnect gauge port fitting. The aluminum threads will be damaged. Contact The Hose Monster Company directly for any repairs.



HOSE MONSTER
COMPANY™

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